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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/087,898	03/01/2002	Alexander Olek	81658A	4523
	7590 06/09/200 & KRIEGSMAN		EXAMINER	
30 TURNPIKE	ROAD, SUITE 9		DEJONG, ERIC S	
SOUTHBOROUGH, MA 01772			ART UNIT	PAPER NUMBER
			1631	
			MAIL DATE	DELIVERY MODE
			06/09/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)
	10/087,898	OLEK ET AL.
Office Action Summary	Examiner	Art Unit
	ERIC S. DEJONG	1631
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATIO 136(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS fron e, cause the application to become ABANDONI	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 13 M	s action is non-final. ance except for formal matters, pr	
Disposition of Claims		
4) Claim(s) 12,22,27,29, and 30 is/are pending i 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 12,22,27,29 and 30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) accomposed and applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examin	cepted or b) objected to by the drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* * See the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Drity documents have been receiv Nau (PCT Rule 17.2(a)).	ion No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal C 6) Other:	ate

DETAILED OFFICE ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 03/13/2009 has been entered.

Claims 1-11, 13-21, 23-26, 28, and 31-44 are canceled. Claims 12, 22, 27, 29, and 30 are pending and are currently under examination.

Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Allowable Subject Matter

The previous objection to claims 12, 22, 27, 29, and 30 as being dependent upon a rejected base claim is withdrawn in view of amendments made to the instant claims and the new grounds of rejection presented below under 35 USC 101.

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Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 12, 22, 27, 29, and 30 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

The recent en banc decision regarding Bilski v. Warsaw (2008) set forth that a process is patent-eligible if (1) it is ties to a particular machine or apparatus or (2) it transforms a particular article into a different state or thing. Further, the recent decision in Comiskey (2009) confirmed the opinion set forth in Bilski of the prohibition preempting an abstract idea or mental process in a claim. The revised Comiskey decision further reiterated the president set forth in Richman, 563 F.2d 1026, 1030 (CCPA 1977) wherein the court held the application unpatentable because "if a claim [as a whole] is directed essentially to a method of calculating, using a mathematical formula, even if the solution is for a specific purpose, the claimed method is nonstatutory."

In the instant case, the claims are directed to a method of determining a biological effect and/or activity of at least one pharmaceutical composition. The recited process involves the steps of obtaining biological samples A and B, analyzing the level of cytosine methylation therein, selecting chosen sites that are differentially methylated, and concluding from a knowledge database a biological effect or activity. Said claims do not recite any step wherein an active physical transformation of a particular article takes place. Rather, the instant claims only require obtaining samples in a particular condition for analysis of their respective state of methylation. The analysis recited in the instant

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claims does not require physical transformation of an article. Further, the selection and conclusion steps read only on an abstract series of mental processes. The ultimate conclusion wherein a conclusion is communicated via the internet or intranet is further treated as insignificant post-solution activity since the communication of a result does not impact the earlier steps wherein said result is determined.

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Therefore, the examiner must determine if the instant claims have a tie to a particular machine or apparatus. In the instant case, the claims do not recite any tie to a machine other than the ultimate step of communicating a conclusion to a computer via an internet or intranet connect. However, as indicated above, the final step of communicating a result has been treated as an insignificant, post-solution activity step.

For these reasons, the instant claims are directed to non-statutory subject matter.

For the benefit of applicant, the instant rejection could be overcome by amendment to the instant claims so as to recite active sample preparation steps whereby the "obtaining" steps require exposure of a pharmaceutical sample and the transformation of said sample methylation state. Further, the instant rejection could be overcome by amendment wherein the "analysis", "selection" and "conclusion" steps expressly recite the use of a suitably programmed computer. Applicants are further cautioned against the introduction of new matter and are requested to cite support from the instant specification for all claim amendments.

Claim Rejections – 35 USC §102

The rejection of claims 1-3, 5-11, 13-21, 23-26, 28, and 31 are rejected under 35 U.S.C. 102(e)(2) as being anticipated by Laird et al. (P/N 6,331,393 B1) in light of Klippel et al. (P/N 3,558,768) is withdrawn in view of the cancellation of said claims.

Claim Rejections - 35 USC § 103

The rejection of claims claims 1-3, 5-11, 13-21, 23-26, 28, 31, 43, and 44 under 35 U.S.C. 103(a) as being unpatentable over Laird et al. (P/N 6,331,393 B1) in light of Klippel et al. (P/N 3,558,768) as applied to claims 1-3, 5-11, 13-21, 23-26, 28, and 31 above, and further in view of Lorincz et al. (Molecular and Cellular Biology (2000) pages 842-850) is withdrawn in view of the cancellation of said claims.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to ERIC S. DEJONG whose telephone number is (571)272-6099. The examiner can normally be reached on 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Marjorie Moran can be reached on (571) 272-0720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/ERIC S. DEJONG/ Examiner, Art Unit 1631